

Student Booklet



Demonstrate understanding of common PC components

Section A to Complete	Checklist
1. Identify and describe purpose of PC components	
2. Describe connections and data flow of PC components	
3. Describe interoperability of key characteristics of PC components	
4. Describe a procedure for installing a PC	

Implement basic procedures for servicing a PC

Section B to Complete	Checklist
1. Follow standard procedures for installing PC hardware.	
2. Follow standard procedures for installing and configuring an operating system.	
3. Follow standard procedures for installing and configuring a printer.	
4. Document testing procedures.	
5. Troubleshoot and resolve a PC fault.	

NOTE: Save this file to your H:\ BEFORE you begin

Save regularly

This work can be used toward your assessment later.

Section 1A – Identify and describe purpose of PC components:

1. Label as many PC parts as you can. The list of terms have been included:

*Modem; Monitor; Mouse; Speakers; Keyboard; CDROM; CD Drive; Printer; Floppy Disk;
Floppy Disk Drive; Memory;*



2. Finish this sentence: “**Hardware** is...

3. Read the website and fill in the blanks for each PC component:

- i. <http://narindri.blogspot.co.nz/2009/05/understanding-computer-case.html>

True or false, the larger the **case**, the better the air flow?

Complete this table using the information from this website:

Type of Case:	Best used by...
Mini tower	
Mid size tower	
Full size tower	
Slimline desktop	

- ii. http://pcsupport.about.com/od/componentprofiles/p/p_ps.htm - Finish this sentence: “The **power supply** unit’s job is to...

Compatible means “able to work together”. What 2 things must a PSU be compatible with?

List 4 things the PSU can give power to:

True or False, you should fix your own power supply?

- iii. **Skip to Section 1B – How to install a power supply.** When finished, **write 250 words** here about how you did it; what you found hard/easy; any problems; what you needed; How you checked it was right:

- iv. <http://computer.howstuffworks.com/motherboard.htm> - “A **motherboard** allows....

- v. <http://www.wisegeek.com/what-is-a-cpu.htm> - Circle what body part the **CPU** can be likened to:

Heart / Brains / Muscles

Finish the sentence: “It is also known as...

- vi. **Skip to Section 1B – How to install a motherboard.** When finished, write **250 words** here about how you did it; what you found hard/easy; any problems; what you needed; How you checked it was right:

- vii. <http://searchmobilecomputing.techtarget.com/definition/RAM> - Finish this sentence: “**RAM** is the place in the computer where...

True or False – Data is lost when you turn off the computer?

List 3 types of storage that RAM is faster than?

True or False – RAM is long term memory?

- viii. **Skip to Section 1B – How to install RAM.** When finished, write **250 words** here about how you did it; what you found hard/easy; any problems; what you needed; How you checked it was right:

- ix. <http://www.homeandlearn.co.uk/bc/bcs1p4.html> - List 3 examples of what is stored on a **hard drive**?

Draw what the inside of a hard drive looks like based on this description: *“a few circular disks stacked one on top of the other. A little arm moves over the disks and writes to these circular platters.”*

Circle the letter a hard drive is sometimes called: A / B / C

List 3 other types of drives inside a computer:

- x. **Skip to Section 1B – How to install a Hard drive.** When finished, write **250 words** here about how you did it; what you found hard/easy; any problems; what you needed; How you checked it was right:

- xi. [http://wiki.answers.com/Q/What is a DVD drive used for on a computer](http://wiki.answers.com/Q/What_is_a_DVD_drive_used_for_on_a_computer) -

List what you can view on a DVD drive:

True or false, you can write DVDs with a DVD-ROM?

- xii. **Skip to Section 1B – How to install a DVD drive.** When finished, write **250 words** here about how you did it; what you found hard/easy; any problems; what you needed; How you checked it was right:

- xiii. <http://www.mediacollege.com/computer/hardware/video-card.html> - Finish this sentence: “A **video card’s** function is to...”

True or False, a video card is the computer’s imagination?


What 3 interfaces can a video card use to talk with the computer?

True or False, the more RAM a video card has, the slower it performs?

Finish this sentence: “The heart of a video card is...

- xiv. **Skip to Section 1B – How to install a video card.** When finished, write **250 words** here about how you did it; what you found hard/easy; any problems; what you needed; How you checked it was right:

4. Using google find an image for each of these **internal PC components**. For the components that are bold, write two different “**models**”. One has been done for you:

Component	Image and/or Example
Case	
Power supply	
Motherboard	
CPU (<i>Processor</i>)	
Memory (<i>RAM</i>)	
Video card (<i>Display</i>)	 <p>AMD Radeon and Nvidia GeForce</p>
Hard drive	
DVD drive	

5. Bibliography - Copy and paste **ALL** websites you copied text and/or images from to complete this section here:

Section 1B – Follow standard procedures for installing PC hardware:

1. How to install a Power Supply:

Section 1B – Follow standard procedures for installing PC hardware:

2. How to Install a Motherboard:

Section 1B – Follow standard procedures for installing PC hardware:

3. How to install a CPU:

Section 1B – Follow standard procedures for installing PC hardware:

4. How to install RAM:

Section 1B – Follow standard procedures for installing PC hardware:

5. How to install a Hard drive:

Section 1B – Follow standard procedures for installing PC hardware:

6. How to install a DVD drive:

Section 1B – Follow standard procedures for installing PC hardware:

1. How to install a CPU:

Section 1A – Identify and describe purpose of PC components:

6. Using google write a description of what these **peripherals** do:

Component	Description of what the component does?
Wireless Keyboard	
Optical Mouse	
Printer	
External Hard drive	
USB Hub	
Webcam	
Monitor	

7. Use your logic and sort “INPUT” from “OUTPUT” hardware. *Think which devices allow me to put information “IN” the PC or take information “OUT” of the PC?*

INPUT DEVICES:	OUTPUT DEVICES:
<ol style="list-style-type: none"> 1. Monitor 2. Mouse 3. Speakers 4. Keyboard 5. Microphone 6. Printer 7. USB Stick 8. Scanner 9. Webcam 	

8. Using google and/or the assigned readings, complete the following table for important PC **software**:

Component	Image and Example	Description of what the component does?
Operating System		
Device Driver		
Applications		

System Software		
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9. Bibliography - Copy and paste **ALL** websites you copied text and/or images from to complete this section here: